

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P947499

Luminaire Tested: **GALN-SB2D-830-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947499  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-830-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

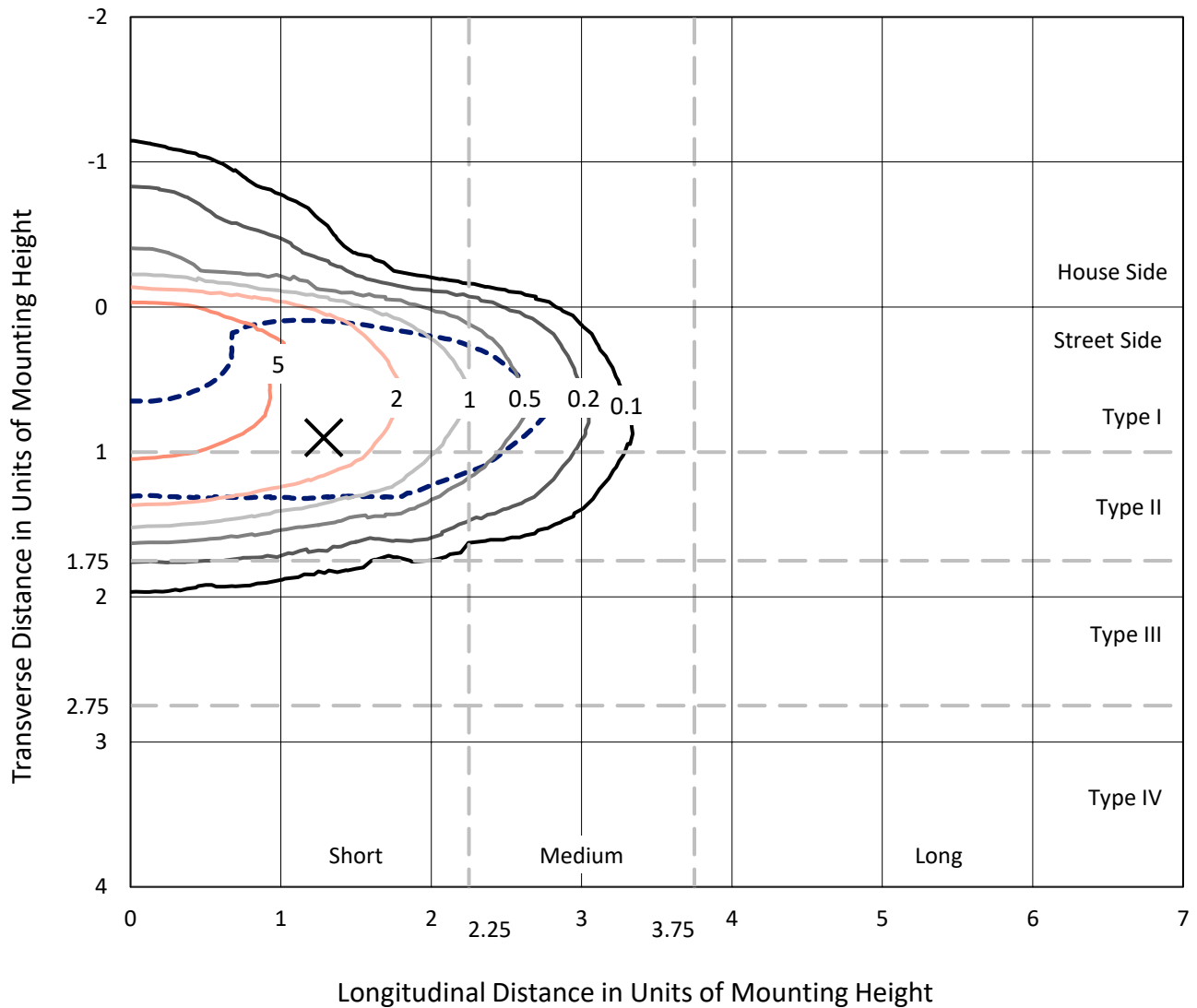
Lumens per Lamp: N/A  
Luminaire Lumens: 15591 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P947499  
 CATALOG NUMBER: GALN-SB2D-830-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

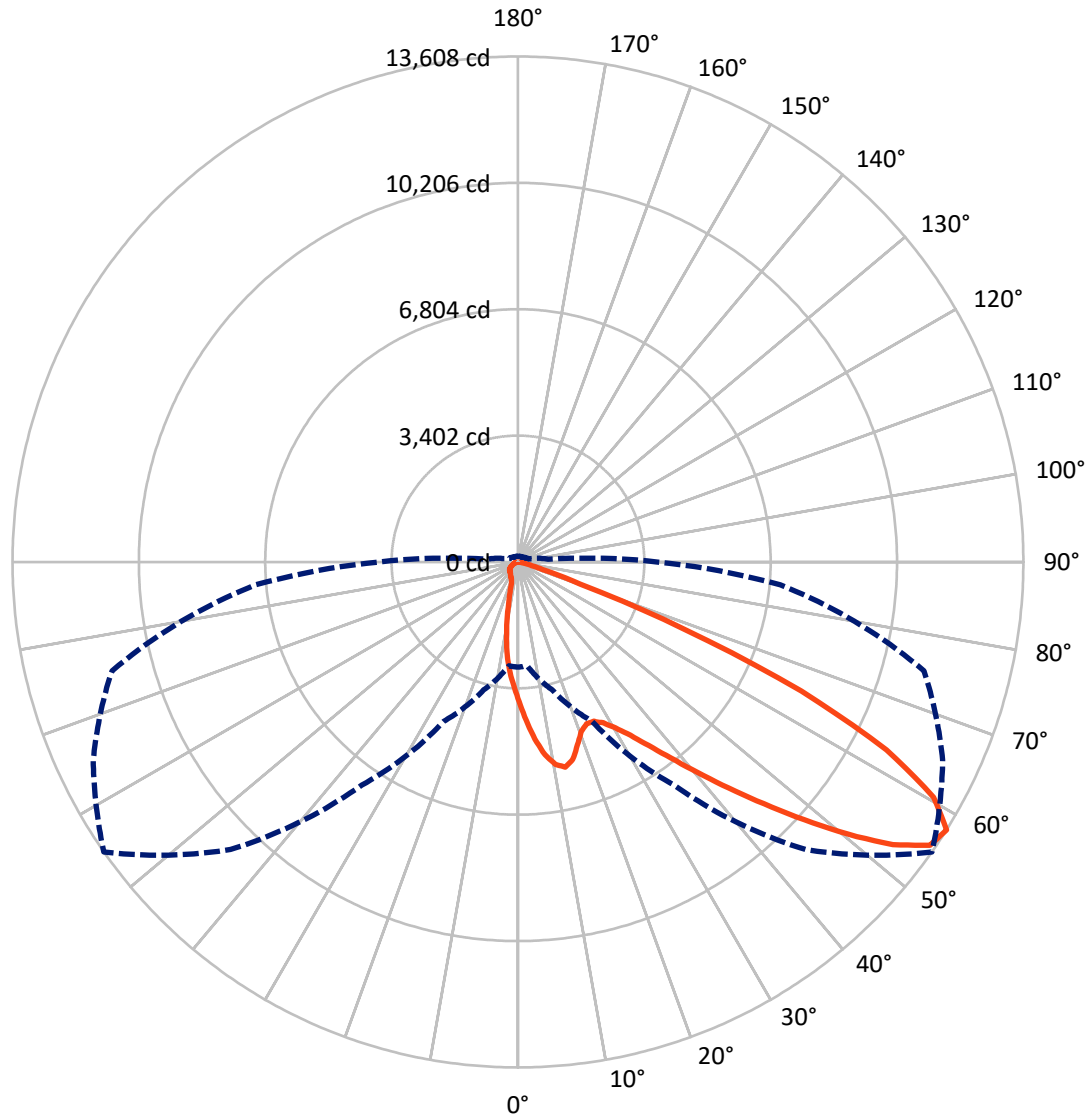
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P947499  
CATALOG NUMBER: GALN-SB2D-830-U-AFL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P947499  
 CATALOG NUMBER: GALN-SB2D-830-U-AFL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1217.6	0.0	1217.6
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	14373.4	0.0	14373.4
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	15591.0	0.0	15591.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.6	2.2
10°-20°	844.4	5.4
20°-30°	1351.0	8.7
30°-40°	2286.7	14.7
40°-50°	3754.2	24.1
50°-60°	4126.2	26.5
60°-70°	2366.8	15.2
70°-80°	483.6	3.1
80°-90°	28.5	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	15591.0	100.0
0°-180°	15591.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P947499

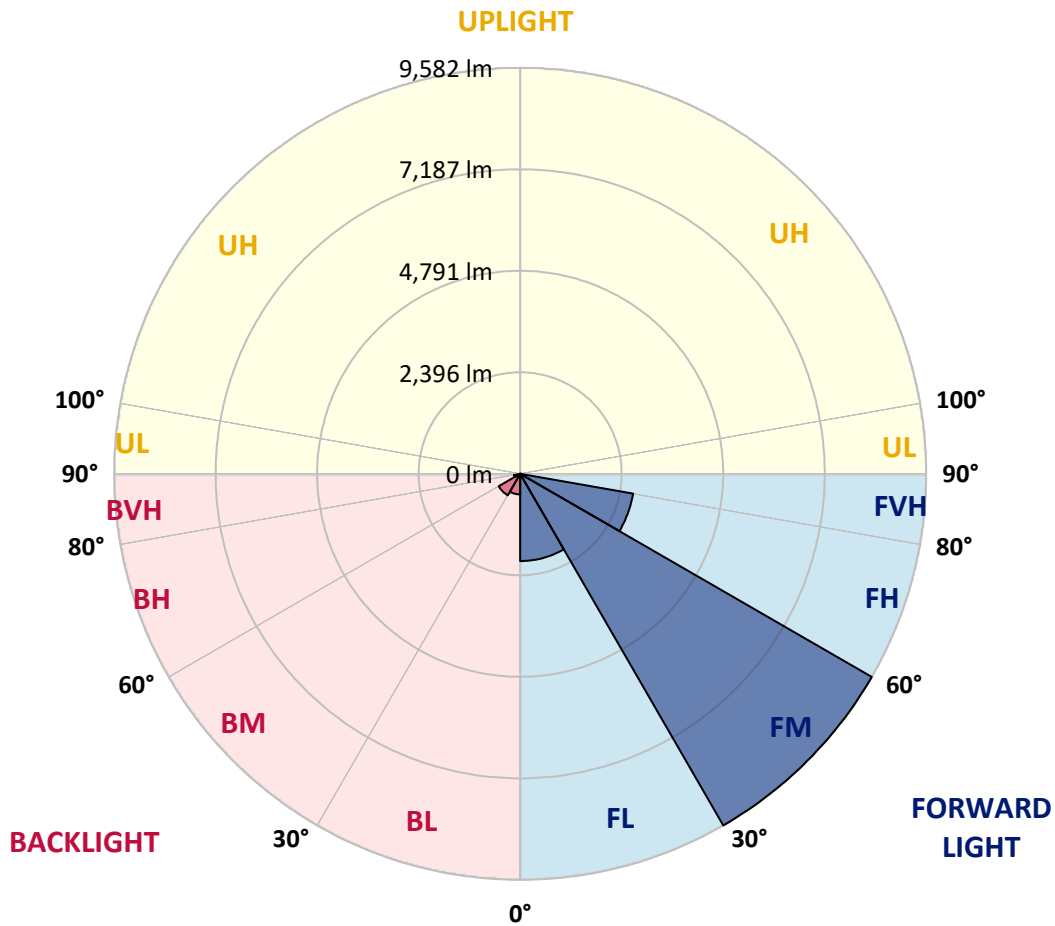
CATALOG NUMBER: GALN-SB2D-830-U-AFL-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2058.9	13.2			
FM (30°-60°)	9582.3	61.5			
FH (60°-80°)	2705.6	17.4			G2/5000
FVH (80°-90°)	26.6	0.2			G1/100
BL (0°-30°)	486.1	3.1	B1/500		
BM (30°-60°)	584.8	3.8	B1/1000		
BH (60°-80°)	144.8	0.9	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short



REPORT NUMBER: P947499

CATALOG NUMBER: GALN-SB2D-830-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3757.0	3757.0	3757.0	3757.0	3757.0	3757.0	3757.0	3757.0	3757.0	3757.0
2.5°	4661.7	4603.1	4594.4	4582.9	4471.3	4387.7	4266.6	4133.9	3984.9	3833.0
5°	5385.6	5339.5	5330.8	5277.0	5150.1	5007.8	4792.4	4520.4	4242.5	3915.7
7.5°	5526.0	5517.3	5556.7	5554.8	5537.5	5425.0	5243.3	4919.3	4502.1	4017.6
10°	4900.1	4922.2	5039.5	5142.4	5420.2	5581.7	5542.3	5275.1	4769.4	4133.9
12.5°	4330.0	4304.1	4387.7	4504.0	4827.1	5307.7	5666.3	5572.1	5075.1	4265.6
15°	3972.4	3961.8	4008.9	4062.8	4308.9	4793.4	5522.1	5813.4	5369.3	4421.4
17.5°	3858.0	3849.3	3863.8	3877.2	4036.8	4411.7	5178.9	5961.5	5651.0	4599.2
20°	3951.2	3939.7	3937.8	3927.2	3993.5	4249.3	4868.4	5972.1	5903.8	4760.7
22.5°	4223.3	4209.9	4162.7	4120.4	4126.2	4271.4	4730.0	5866.3	6094.1	4911.7
25°	4716.5	4694.4	4596.3	4454.0	4363.7	4425.2	4751.1	5726.9	6275.8	5029.9
27.5°	5333.7	5304.9	5178.9	4967.4	4760.7	4685.7	4904.0	5630.8	6426.8	5120.3
30°	5938.4	5900.9	5776.9	5612.5	5310.6	5074.1	5179.9	5673.1	6606.6	5214.5
32.5°	6591.2	6555.6	6391.2	6187.4	5937.4	5619.2	5557.7	5879.8	6826.7	5346.2
35°	7417.0	7361.2	7127.6	6849.8	6584.4	6262.4	6069.1	6236.4	7119.9	5547.1
37.5°	8357.2	8282.2	8030.4	7646.8	7300.7	6940.2	6692.1	6726.7	7549.7	5816.3
40°	9243.6	9175.3	8942.7	8581.2	8146.7	7709.3	7444.9	7368.0	8142.8	6144.1
42.5°	9775.2	9713.7	9615.7	9462.8	9096.5	8650.4	8316.8	8150.5	8844.6	6536.4
45°	9805.0	9751.2	9882.9	10060.8	9988.7	9691.6	9284.9	8980.2	9549.3	6904.6
47.5°	9328.2	9291.7	9691.6	10312.7	10622.2	10747.2	10372.3	9740.6	10131.0	7169.0
50°	8028.4	8015.0	8837.9	9978.1	10863.5	11672.0	11519.2	10448.2	10581.8	7305.5
52.5°	6961.3	6912.3	7392.0	8907.1	10512.6	12158.5	12640.1	11142.3	10897.2	7331.4
55°	5279.9	5236.6	5838.4	7115.1	9381.1	11985.4	13460.2	11858.5	11123.1	7265.1
57.5°	2832.2	2805.3	3565.7	4735.7	7333.4	10947.2	13608.2	12616.1	11313.4	7089.2
60°	1102.7	1097.9	1382.5	2297.7	4456.9	8906.2	12861.3	13070.8	11432.7	6872.9
62.5°	667.2	681.6	727.8	1031.6	1968.9	5532.7	11139.4	12553.6	11512.4	6674.8
65°	551.8	552.8	558.6	708.5	943.1	2315.0	8386.1	10852.0	11315.4	6322.0
67.5°	473.0	481.6	503.8	562.4	665.3	1015.2	4828.0	8406.2	10116.5	5501.0
70°	373.0	384.5	412.4	462.4	513.4	635.5	1784.3	5593.3	7728.5	4146.4
72.5°	314.4	313.4	327.8	375.9	407.6	447.0	686.4	3134.1	4491.5	1979.5
75°	243.2	252.8	271.1	314.4	333.6	324.0	372.1	1145.0	1609.3	599.9
77.5°	190.4	198.0	214.4	256.7	275.9	229.8	214.4	409.5	517.2	215.3
80°	85.6	92.3	146.1	189.4	225.0	158.6	116.3	209.6	229.8	98.1
82.5°	15.4	26.0	85.6	100.0	115.4	102.9	60.6	108.6	112.5	39.4
85°	1.0	1.9	29.8	36.5	46.1	33.6	18.3	43.3	37.5	13.5
87.5°	0.0	0.0	0.0	1.0	1.0	4.8	5.8	7.7	5.8	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947499  
 CATALOG NUMBER: GALN-SB2D-830-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3757.0	0°	3757.0	3757.0	3757.0	3757.0	3757.0	3757.0	3757.0	3757.0	3757.0	3757.0
3765.7	2.5°	3696.5	3560.0	3427.3	3318.7	3255.2	3147.5	3076.4	3064.9	3035.1	3061.0
3775.3	5°	3625.3	3381.1	3134.1	2913.0	2731.3	2496.7	2321.7	2247.7	2183.3	2205.4
3800.3	7.5°	3591.7	3206.2	2821.6	2443.8	2055.4	1680.5	1401.7	1285.4	1196.9	1209.4
3828.2	10°	3546.5	3024.5	2421.7	1844.9	1324.8	954.6	762.4	691.2	651.8	652.8
3869.5	12.5°	3511.9	2807.2	1957.4	1250.7	806.6	609.5	549.9	532.6	521.1	522.0
3932.0	15°	3494.6	2551.5	1498.8	833.5	576.8	516.3	501.8	494.1	486.5	485.5
4001.2	17.5°	3465.8	2266.9	1096.9	608.5	504.7	483.6	471.1	462.4	452.8	450.9
4060.8	20°	3422.5	1943.9	801.8	514.3	473.0	456.7	439.3	427.8	416.3	414.4
4098.3	22.5°	3342.7	1602.6	616.2	475.9	449.9	431.7	410.5	397.0	385.5	383.6
4080.1	25°	3194.6	1282.5	519.1	451.8	429.7	407.6	384.5	366.3	355.7	353.8
4040.7	27.5°	3007.2	1007.5	471.1	429.7	403.8	383.6	357.6	340.3	330.7	328.8
3988.7	30°	2786.1	775.8	443.2	404.7	373.0	355.7	332.6	318.2	312.4	312.4
3952.2	32.5°	2547.6	620.1	431.7	379.7	346.1	326.9	308.6	302.8	300.9	299.9
3972.4	35°	2323.6	538.4	425.9	359.6	322.1	303.8	296.1	297.1	300.9	300.9
4034.9	37.5°	2124.6	512.4	423.0	345.1	300.9	284.6	289.4	298.0	294.2	294.2
4144.5	40°	1944.9	515.3	421.1	334.6	283.6	274.0	283.6	276.9	267.3	266.3
4278.1	42.5°	1807.4	539.3	417.2	325.9	273.0	266.3	262.5	251.9	250.9	252.8
4416.5	45°	1707.4	560.5	416.3	322.1	261.5	249.0	244.2	233.6	252.8	257.6
4473.3	47.5°	1589.2	560.5	416.3	308.6	242.3	237.5	229.8	218.2	237.5	242.3
4419.4	50°	1436.3	524.9	399.9	293.2	226.9	224.0	210.5	196.1	192.3	195.2
4293.5	52.5°	1243.1	460.5	358.6	272.1	211.5	205.7	189.4	178.8	175.9	175.9
4067.6	55°	1022.9	385.5	302.8	241.3	195.2	184.6	173.0	168.2	165.4	163.4
3751.3	57.5°	831.6	316.3	243.2	214.4	179.8	166.3	162.5	156.7	151.9	149.0
3486.9	60°	682.6	249.0	200.9	190.4	164.4	151.9	150.9	143.2	130.7	128.8
3268.7	62.5°	526.8	182.7	169.2	165.4	149.0	138.4	136.5	121.1	101.9	98.1
2959.1	65°	372.1	142.3	136.5	145.2	132.7	123.1	118.2	95.2	75.0	72.1
2476.5	67.5°	261.5	119.2	107.7	126.9	115.4	102.9	100.0	80.8	62.5	60.6
1872.8	70°	186.5	97.1	88.4	108.6	92.3	90.4	84.6	67.3	51.0	49.0
926.8	72.5°	131.7	74.0	68.3	94.2	63.5	77.9	69.2	51.9	38.5	36.5
315.3	75°	97.1	52.9	48.1	54.8	46.1	58.6	49.0	34.6	24.0	23.1
142.3	77.5°	71.1	33.6	28.8	26.9	26.9	36.5	26.9	14.4	10.6	9.6
72.1	80°	50.0	15.4	13.5	11.5	10.6	8.7	3.8	1.9	1.0	1.0
25.0	82.5°	29.8	6.7	6.7	4.8	2.9	0.0	0.0	0.0	0.0	0.0
9.6	85°	6.7	2.9	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
3.8	87.5°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI

